(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 13 January 2000 (13.01.2000)

PCT

(10) International Publication Number WO 00/02195 A3

[JP/JP]; 2-16-26, Yokodai, Isogo-ku, Yokohama-shi, Kana-

gawa 235-0045 (JP). ITO, Yuji [JP/JP]; 5-22-1, Chuo, Ota-ku, Tokyo 143-0024 (JP). MIMURA, Hideki [JP/JP]; A-104, Marine-City, 391, Shibacho, Kanazawa-ku, Yoko-

(74) Agents: SUZUYE, Takehiko et al.; Suzuye & Suzuye, 7-2. Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-0013

(51) International Patent Classification7: G11B 27/036. 27/10, 27/32, 27/34, 27/36, 20/12, H04N 5/92, 9/804, 5/85

(21) International Application Number: PCT/JP99/03668

(22) International Filing Date: 7 July 1999 (07.07.1999)

(25) Filing Language:

English

(26) Publication Language:

(30) Priority Data: 10/192064

7 July 1998 (07.07.1998) JP

(71) Applicant (for all designated States except US): KABUSHIKI KAISHA TOSHIBA [JP/JP]; 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa

English

(84) Designated States (regional): European patent (DE, FR. GB).

hama-shi, Kanagawa 236-0012 (JP).

(81) Designated States (national): CN, KR, US.

Published:

(JP).

with international search report

210-8572 (JP). (72) Inventors; and

(75) Inventors/Applicants (for US only): KIKUCHI, Shinichi [JP/JP]; 4-23-1, Yokodai, Isogo-ku, Yokohama-shi, Kanagawa 235-0045 (JP). ANDO, Hideo [JP/JP]; 890-1-205, Arai, Hino-shi, Tokyo 191-0022 (JP). TAIRA, Kazuhiko (88) Date of publication of the international search report: 11 October 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DIGITAL VIDEO SYSTEM

CELL N

CELL M

CELL1 CELL2 CELL3 CELL4 CELL5 SET INDICATED AREA TO TEMPORARY ERASED SAME SAME CELLS STATE (PLAYBACK CELL PROHIBITED STATE) CELL 1 CELL2 CELL3 CELL4 **CELL5** CELL6 CELL7

SET ERASION LEVEL FLAG (FIG. 12) AT CELLS 3 AND 4

(57) Abstract: The erasion level appending range of a file is instructed. According to this instruction, the erasion level is set. When this setting range does not agree with the cell unit of the current cell, the current cell is divided to set a sequence of divided cells. Playback management information of each of the divided cells and current cell is re-created, and erasion level information is appended to playback management information of the divided cell that belongs to the appending range.

INTERNATIONAL SEARCH REPORT

PCT/JP 99/03668

A CLASSIF IPC 7	G11827/036 G11827/10 G11827/ G11820/12 H04N5/92 H04N9/8		1827/34 1N5/85	G11B27	7/36				
According to	International Patent Classification (IPC) or to both national classif	ication and IPC							
	SEARCHED								
Minimum do IPC 7	cumentation searched (classification system followed by classifice G11B H04N	itton symbols)							
Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched									
Sectronic d	ata base consulted during the International search (name of data I	oase and, where	practical, search	i terms used)					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT								
Category *	Citation of document, with indication, where appropriate, of the	relevant passage	rs.		Relevant to claim No.				
A	EP 0 406 021 A (SHARP KK) 2 January 1991 (1991-01-02) page 19, line 26 -page 21, line	42			1,5,9, 12-16				
A	US 5 751 371 A (SHINTANI PETER) 12 May 1998 (1998-05-12) column 3, line 22 -column 5, line 5 column 6, line 24 -column 7, line 25 column 10, line 22 - line 33 column 12, line 65 -column 13, line 6				1,5,9, 12-16				
A	WO 98 22947 A (PHILIPS ELECTRONICS NV; PHILIPS NORDEN AB (SE)) 28 May 1998 (1998-05-28) the whole document				1,5,9, 12-16				
	·	-/							
X Furt	ther documents are listed in the continuation of box C.	X Pas	ent family membe	ers are listed in	n annex.				
"A" document defining the general state of the art which is not considered to be of particular relevance invention. "E" earlier document but published on or after the international filing date. "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified). "O" document estanting to an onal disclosure, use, exhibition or other means. "P" document published prior to the international filing date but.				nent of particular relevance; the claimed invention of be considered novel or cannot be considered to we an inventive step when the document is taken alone nent of particular relevance; the claimed invention of be considered to involve an inventive step when the ment is combined with one or more other such document, such combination being obvious to a person skilled					
	actual completion of the international search November 1999		mailing of the int	emational sea	rch report				
	mailing address of the ISA European Patent Office, P.B. 5616 Patentiaan 2 NL - 2280 HV Rijscelijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authoriz	ad officer	F					

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

triumational Ar ation No PCT/JP 99/03668

		FC1/0F 99/03008
Category *	cition) DOCLIMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	Refevant to daim No.
A	EP 0 833 337 A (SONY CORP) 1 April 1998 (1998-04-01)	1,5,9, 12-16
_	column 19, line 25 -column 20, line 40 column 44, line 26 -column 45, line 49	
Α .	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) & JP 10 126739 A (KENWOOD CORP), 15 May 1998 (1998-05-15) abstract	1,5,9, 12-16
A	EP 0 680 046 A (CANON KK) 2 November 1995 (1995-11-02) the whole document	1,5,9, 12-16
P,A	EP 0 905 699 A (MATSUSHITA ELECTRIC IND CO LTD) 31 March 1999 (1999-03-31) the whole document	1,5,9, 12-16
P,A	EP 0 903 742 A (MATSUSHITA ELECTRIC IND CO LTD) 24 March 1999 (1999-03-24) the whole document	1,5,9, 12-16
	· · · ·	
		·
- Portion :	10 (continuation of second sheet) (July 1962)	

page 2 of 2

INTERNATIONAL SEARCH REPORT

information on patent family members

PCT/JP 99/03668

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
FP	0406021 A		02-01-1991	JP 1969454 C		18-09-1995
	0100021	••	00 00 1370	JP	3035476 A	15-02-1991
				JP	6105536 B	21-12-1994
				JP	3035471 A	15-02-1991
				JP	1933662 C	26-05-1995
				JP	3035475 A	15-02-1991
	:			JP	6064841 B	22-08-1994
				JP	3035479 A	15-02-1991
				JP	3035480 A	15-02-1991
				JP	3066086 A	20-03-1991
				CA	2020059 A.C	31-12-1990
				DE	69028880 D	21-11-1996
				KR	9401016 B	08-02-1994
				US	5420838 A	30-05-1995
US	5751371	Α	12-05-1998	JP	8181929 A	12-07-1996
WO	9822947	A	28-05-1998	CN	1214147 A	14-04-1999
			_	CN	1214148 A	14-04-1999
				EP	0880780 A	02-12-1998
				EP	0882293 A	09 - 12-1 99 8
				WO	9822946 A	28-05-1998
EP	0833337	A	01-04-1998	JP	10106237 A	24-04-1998
JP	10126739	Α	15-05-1998	NONE		
EP	0680046	A	02-11-1995	. JP	7296490 A	10-11-1995
				JP	8235830 A	13-09-1996
ΕP	0905699	A	31-03-1999	WO	9914755 A	25-03-1999
EP	0903742	A	24-03-1999	MO	9914757 A	25-03-1999
				JP	11155131 A	08-06-1999

Form PCT/ISA/210 (patient family arrests) (July 1992)